

Submit 3 Copies To Appropriate District  
Office  
District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Ave., Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised June 10, 2003

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

|                                                                                                     |
|-----------------------------------------------------------------------------------------------------|
| WELL API NO.<br><b>30-015-33456</b>                                                                 |
| 5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No.<br><b>E-647</b>                                                        |
| 7. Lease Name or Unit Agreement Name<br><b>DAD State</b>                                            |
| 8. Well Number<br><b>42</b>                                                                         |
| 9. OGRID Number<br><b>14049</b>                                                                     |
| 10. Pool name or Wildcat<br><b>Artesia; Glorieta-Yeso (O)</b>                                       |

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH  
PROPOSALS.)

1. Type of Well:  
Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator  
**Marbob Energy Corporation**

3. Address of Operator  
**PO Box 227 505-748-3303**  
**Artesia, NM 88211-0227 505-746-2523 fax**

4. Well Location  
Unit Letter I : 1650 feet from the South line and 990 feet from the East line  
Section 25 Township 17S Range 28E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐  
OTHER: ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐  
CASING TEST AND CEMENT JOB ☐  
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Attached Direction Drilling Plan.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Melanie J. Parker TITLE Land Department DATE 07/29/04

Type or print name Melanie J. Parker E-mail address: marbob@marbob.com Telephone No. 505-748-3303

(This space for State use)

APPROVED BY FOR RECORDS ONLY TITLE DATE AUG 05 2004

Conditions of approval, if any:



# PathFinder Planning Report - Geographic

30-015-33456  
1650 FSL ? 440' FEL  
I - SEC. 25-17S-28E

|                                       |                                                                    |                       |                |
|---------------------------------------|--------------------------------------------------------------------|-----------------------|----------------|
| <b>Company:</b> Marbob Energy         | <b>Date:</b> 7/26/2004                                             | <b>Time:</b> 13:51:19 | <b>Page:</b> 1 |
| <b>Field:</b> Eddy County, NM         | <b>Co-ordinate(N/E) Reference:</b> Well: DAD State #42, Grid North |                       |                |
| <b>Site:</b> Section 25, T-17S, R-28E | <b>Vertical (TVD) Reference:</b> System: Mean Sea Level            |                       |                |
| <b>Well:</b> DAD State #42            | <b>Section (VS) Reference:</b> Well (0.00N,0.00E,116.09Azi)        |                       |                |
| <b>Wellpath:</b> Original Hole        | <b>Plan:</b> Plan #1                                               |                       |                |

**Field:** Eddy County, NM

USA

**Map System:** US State Plane Coordinate System 1927

**Geo Datum:** NAD27 (Clarke 1866)

**Sys Datum:** Mean Sea Level

**Map Zone:**

New Mexico, Eastern Zone

**Coordinate System:**

Well Centre

**Geomagnetic Model:**

igrf2000

**Site:** Section 25, T-17S, R-28E

**Site Position:**

**From:** Lease Line

**Northing:**

ft

**Latitude:**

**Easting:**

ft

**Longitude:**

**Position Uncertainty:** 0.00 ft

**North Reference:**

Grid

**Ground Level:** 3674.00 ft

**Grid Convergence:**

0.00 deg

**Well:** DAD State #42

**Slot Name:**

**Well Position:** +N/-S 0.00 ft

**Northing:** 0.00 ft

**Latitude:** 30 59 24.512 N

**+E/-W** 0.00 ft

**Easting :** 0.00 ft

**Longitude:** 105 55 44.137 W

**Position Uncertainty:** 0.00 ft

**Wellpath:** Original Hole

**Drilled From:** Surface

**Current Datum:** SITE

**Height** 3674.00 ft

**Tie-on Depth:** 0.00 ft

**Magnetic Data:** 7/26/2004

**Above System Datum:** Mean Sea Level

**Field Strength:** 0 nT

**Declination:** 0.00 deg

**Vertical Section:** Depth From (TVD)

+N/-S

**Mag Dip Angle:** 0.00 deg

+E/-W

**Direction**

ft

deg

0.00

0.00

0.00

116.09

**Plan:** Plan #1

**Date Composed:** 7/26/2004

**Principal:** Yes

**Version:** 1

**Tied-to:** From Surface

## Plan Section Information

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | TFO<br>deg | Target            |
|----------|-------------|-------------|-----------|-------------|-------------|------------------|--------------------|-------------------|------------|-------------------|
| 0.00     | 0.00        | 116.09      | -3674.00  | 0.00        | 0.00        | 0.00             | 0.00               | 0.00              | 0.00       |                   |
| 600.00   | 0.00        | 116.09      | -3074.00  | 0.00        | 0.00        | 0.00             | 0.00               | 0.00              | 116.09     |                   |
| 1082.39  | 7.24        | 116.09      | -2592.90  | -13.38      | 27.32       | 1.50             | 1.50               | 0.00              | 116.09     |                   |
| 2764.68  | 7.24        | 116.09      | -924.00   | -106.56     | 217.62      | 0.00             | 0.00               | 0.00              | 0.00       | Point @ 2750' TVD |
| 4226.32  | 7.24        | 116.09      | 526.00    | -187.52     | 382.96      | 0.00             | 0.00               | 0.00              | 0.00       |                   |

## Section 1 : Start Hold

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | VS<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | TFO<br>deg |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|------------|
| 0.00     | 0.00        | 116.09      | -3674.00  | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              | 0.00       |
| 100.00   | 0.00        | 116.09      | -3574.00  | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              | 116.09     |
| 200.00   | 0.00        | 116.09      | -3474.00  | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              | 116.09     |
| 300.00   | 0.00        | 116.09      | -3374.00  | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              | 116.09     |
| 400.00   | 0.00        | 116.09      | -3274.00  | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              | 116.09     |
| 500.00   | 0.00        | 116.09      | -3174.00  | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              | 116.09     |
| 600.00   | 0.00        | 116.09      | -3074.00  | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              | 116.09     |

## Section 2 : Start Build 1.50

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | VS<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | TFO<br>deg |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|------------|
| 700.00   | 1.50        | 116.09      | -2974.01  | -0.58       | 1.18        | 1.31     | 1.50             | 1.50               | 0.00              | 0.00       |
| 800.00   | 3.00        | 116.09      | -2874.09  | -2.30       | 4.70        | 5.23     | 1.50             | 1.50               | 0.00              | 0.00       |
| 900.00   | 4.50        | 116.09      | -2774.31  | -5.18       | 10.58       | 11.77    | 1.50             | 1.50               | 0.00              | 0.00       |
| 1000.00  | 6.00        | 116.09      | -2674.73  | -9.20       | 18.79       | 20.92    | 1.50             | 1.50               | 0.00              | 0.00       |
| 1082.39  | 7.24        | 116.09      | -2592.90  | -13.38      | 27.32       | 30.42    | 1.50             | 1.50               | 0.00              | 0.00       |

# PathFinder

## Planning Report - Geographic

|                                       |                                                                   |                       |                |
|---------------------------------------|-------------------------------------------------------------------|-----------------------|----------------|
| <b>Company:</b> Marbob Energy         | <b>Date:</b> 7/26/2004                                            | <b>Time:</b> 13:51:19 | <b>Page:</b> 2 |
| <b>Field:</b> Eddy County, NM         | <b>Co-ordinate(NE) Reference:</b> Well: DAD State #42, Grid North |                       |                |
| <b>Site:</b> Section 25, T-17S, R-28E | <b>Vertical (TVD) Reference:</b> System: Mean Sea Level           |                       |                |
| <b>Well:</b> DAD State #42            | <b>Section (VS) Reference:</b> Well (0.00N,0.00E,116.09Azi)       |                       |                |
| <b>Wellpath:</b> Original Hole        | <b>Plan:</b> Plan #1                                              |                       |                |

**Section 3 : Start Hold**

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | VS<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | TFO<br>deg |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|------------|
| 1100.00  | 7.24        | 116.09      | -2575.42  | -14.35      | 29.31       | 32.64    | 0.00             | 0.00               | 0.00              | 0.00       |
| 1200.00  | 7.24        | 116.09      | -2476.22  | -19.89      | 40.62       | 45.23    | 0.00             | 0.00               | 0.00              | 0.00       |
| 1300.00  | 7.24        | 116.09      | -2377.01  | -25.43      | 51.94       | 57.83    | 0.00             | 0.00               | 0.00              | 0.00       |
| 1400.00  | 7.24        | 116.09      | -2277.81  | -30.97      | 63.25       | 70.42    | 0.00             | 0.00               | 0.00              | 0.00       |
| 1500.00  | 7.24        | 116.09      | -2178.61  | -36.51      | 74.56       | 83.02    | 0.00             | 0.00               | 0.00              | 0.00       |
| 1600.00  | 7.24        | 116.09      | -2079.40  | -42.05      | 85.87       | 95.61    | 0.00             | 0.00               | 0.00              | 0.00       |
| 1700.00  | 7.24        | 116.09      | -1980.20  | -47.59      | 97.18       | 108.21   | 0.00             | 0.00               | 0.00              | 0.00       |
| 1800.00  | 7.24        | 116.09      | -1881.00  | -53.13      | 108.50      | 120.80   | 0.00             | 0.00               | 0.00              | 0.00       |
| 1900.00  | 7.24        | 116.09      | -1781.79  | -58.67      | 119.81      | 133.40   | 0.00             | 0.00               | 0.00              | 0.00       |
| 2000.00  | 7.24        | 116.09      | -1682.59  | -64.20      | 131.12      | 146.00   | 0.00             | 0.00               | 0.00              | 0.00       |
| 2100.00  | 7.24        | 116.09      | -1583.39  | -69.74      | 142.43      | 158.59   | 0.00             | 0.00               | 0.00              | 0.00       |
| 2200.00  | 7.24        | 116.09      | -1484.18  | -75.28      | 153.74      | 171.19   | 0.00             | 0.00               | 0.00              | 0.00       |
| 2300.00  | 7.24        | 116.09      | -1384.98  | -80.82      | 165.06      | 183.78   | 0.00             | 0.00               | 0.00              | 0.00       |
| 2400.00  | 7.24        | 116.09      | -1285.77  | -86.36      | 176.37      | 196.38   | 0.00             | 0.00               | 0.00              | 0.00       |
| 2500.00  | 7.24        | 116.09      | -1186.57  | -91.90      | 187.68      | 208.97   | 0.00             | 0.00               | 0.00              | 0.00       |
| 2600.00  | 7.24        | 116.09      | -1087.37  | -97.44      | 198.99      | 221.57   | 0.00             | 0.00               | 0.00              | 0.00       |
| 2700.00  | 7.24        | 116.09      | -988.16   | -102.98     | 210.30      | 234.16   | 0.00             | 0.00               | 0.00              | 0.00       |
| 2764.68  | 7.24        | 116.09      | -924.00   | -106.56     | 217.62      | 242.31   | 0.00             | 0.00               | 0.00              | 0.00       |

**Section 4 : Start Hold**

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | VS<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | TFO<br>deg |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|------------|
| 2800.00  | 7.24        | 116.09      | -888.96   | -108.52     | 221.62      | 246.76   | 0.00             | 0.00               | 0.00              | 0.00       |
| 2900.00  | 7.24        | 116.09      | -789.76   | -114.06     | 232.93      | 259.35   | 0.00             | 0.00               | 0.00              | 0.00       |
| 3000.00  | 7.24        | 116.09      | -690.55   | -119.59     | 244.24      | 271.95   | 0.00             | 0.00               | 0.00              | 0.00       |
| 3100.00  | 7.24        | 116.09      | -591.35   | -125.13     | 255.55      | 284.54   | 0.00             | 0.00               | 0.00              | 0.00       |
| 3200.00  | 7.24        | 116.09      | -492.15   | -130.67     | 266.86      | 297.14   | 0.00             | 0.00               | 0.00              | 0.00       |
| 3300.00  | 7.24        | 116.09      | -392.94   | -136.21     | 278.18      | 309.73   | 0.00             | 0.00               | 0.00              | 0.00       |
| 3400.00  | 7.24        | 116.09      | -293.74   | -141.75     | 289.49      | 322.33   | 0.00             | 0.00               | 0.00              | 0.00       |
| 3500.00  | 7.24        | 116.09      | -194.53   | -147.29     | 300.80      | 334.92   | 0.00             | 0.00               | 0.00              | 0.00       |
| 3600.00  | 7.24        | 116.09      | -95.33    | -152.83     | 312.11      | 347.52   | 0.00             | 0.00               | 0.00              | 0.00       |
| 3700.00  | 7.24        | 116.09      | 3.87      | -158.37     | 323.42      | 360.11   | 0.00             | 0.00               | 0.00              | 0.00       |
| 3800.00  | 7.24        | 116.09      | 103.08    | -163.91     | 334.73      | 372.71   | 0.00             | 0.00               | 0.00              | 0.00       |
| 3900.00  | 7.24        | 116.09      | 202.28    | -169.45     | 346.05      | 385.31   | 0.00             | 0.00               | 0.00              | 0.00       |
| 4000.00  | 7.24        | 116.09      | 301.48    | -174.98     | 357.36      | 397.90   | 0.00             | 0.00               | 0.00              | 0.00       |
| 4100.00  | 7.24        | 116.09      | 400.69    | -180.52     | 368.67      | 410.50   | 0.00             | 0.00               | 0.00              | 0.00       |
| 4200.00  | 7.24        | 116.09      | 499.89    | -186.06     | 379.98      | 423.09   | 0.00             | 0.00               | 0.00              | 0.00       |
| 4226.32  | 7.24        | 116.09      | 526.00    | -187.52     | 382.96      | 426.41   | 0.00             | 0.00               | 0.00              | 0.00       |

**Survey**

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | Map<br>Northing<br>ft | Map<br>Easting<br>ft | ← Latitude →<br>Deg Min Sec |          | ← Longitude →<br>Deg Min Sec |          |
|----------|-------------|-------------|-----------|-------------|-------------|-----------------------|----------------------|-----------------------------|----------|------------------------------|----------|
| 0.00     | 0.00        | 116.09      | -3674.00  | 0.00        | 0.00        | 0.00                  | 0.00                 | 30 59                       | 24.512 N | 105 55                       | 44.137 W |
| 100.00   | 0.00        | 116.09      | -3574.00  | 0.00        | 0.00        | 0.00                  | 0.00                 | 30 59                       | 24.512 N | 105 55                       | 44.137 W |
| 200.00   | 0.00        | 116.09      | -3474.00  | 0.00        | 0.00        | 0.00                  | 0.00                 | 30 59                       | 24.512 N | 105 55                       | 44.137 W |
| 300.00   | 0.00        | 116.09      | -3374.00  | 0.00        | 0.00        | 0.00                  | 0.00                 | 30 59                       | 24.512 N | 105 55                       | 44.137 W |
| 400.00   | 0.00        | 116.09      | -3274.00  | 0.00        | 0.00        | 0.00                  | 0.00                 | 30 59                       | 24.512 N | 105 55                       | 44.137 W |
| 500.00   | 0.00        | 116.09      | -3174.00  | 0.00        | 0.00        | 0.00                  | 0.00                 | 30 59                       | 24.512 N | 105 55                       | 44.137 W |
| 600.00   | 0.00        | 116.09      | -3074.00  | 0.00        | 0.00        | 0.00                  | 0.00                 | 30 59                       | 24.512 N | 105 55                       | 44.137 W |
| 700.00   | 1.50        | 116.09      | -2974.01  | -0.58       | 1.18        | -0.58                 | 1.18                 | 30 59                       | 24.506 N | 105 55                       | 44.124 W |
| 800.00   | 3.00        | 116.09      | -2874.09  | -2.30       | 4.70        | -2.30                 | 4.70                 | 30 59                       | 24.490 N | 105 55                       | 44.083 W |
| 900.00   | 4.50        | 116.09      | -2774.31  | -5.18       | 10.58       | -5.18                 | 10.58                | 30 59                       | 24.462 N | 105 55                       | 44.015 W |
| 1000.00  | 6.00        | 116.09      | -2674.73  | -9.20       | 18.79       | -9.20                 | 18.79                | 30 59                       | 24.423 N | 105 55                       | 43.920 W |
| 1082.39  | 7.24        | 116.09      | -2592.90  | -13.38      | 27.32       | -13.38                | 27.32                | 30 59                       | 24.383 N | 105 55                       | 43.821 W |
| 1100.00  | 7.24        | 116.09      | -2575.42  | -14.35      | 29.31       | -14.35                | 29.31                | 30 59                       | 24.374 N | 105 55                       | 43.798 W |
| 1200.00  | 7.24        | 116.09      | -2476.22  | -19.89      | 40.62       | -19.89                | 40.62                | 30 59                       | 24.321 N | 105 55                       | 43.667 W |
| 1300.00  | 7.24        | 116.09      | -2377.01  | -25.43      | 51.94       | -25.43                | 51.94                | 30 59                       | 24.267 N | 105 55                       | 43.537 W |
| 1400.00  | 7.24        | 116.09      | -2277.81  | -30.97      | 63.25       | -30.97                | 63.25                | 30 59                       | 24.214 N | 105 55                       | 43.406 W |

# PathFinder

## Planning Report - Geographic

**Company:** Marbob Energy  
**Field:** Eddy County, NM  
**Site:** Section 25, T-17S, R-28E  
**Well:** DAD State #42  
**Wellpath:** Original Hole

**Date:** 7/26/2004 **Time:** 13:51:19 **Page:** 3  
**Co-ordinate(NE) Reference:** Well: DAD State #42, Grid North  
**Vertical (TVD) Reference:** System: Mean Sea Level  
**Section (VS) Reference:** Well (0.00N,0.00E,116.09Azi)  
**Plan:** Plan #1

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | Map<br>Northing<br>ft | Map<br>Easting<br>ft | ← Latitude → |     |          | ← Longitude → |     |          |
|----------|-------------|-------------|-----------|-------------|-------------|-----------------------|----------------------|--------------|-----|----------|---------------|-----|----------|
|          |             |             |           |             |             |                       |                      | Deg          | Min | Sec      | Deg           | Min | Sec      |
| 1500.00  | 7.24        | 116.09      | -2178.61  | -36.51      | 74.56       | -36.51                | 74.56                | 30           | 59  | 24.161 N | 105           | 55  | 43.275 W |
| 1600.00  | 7.24        | 116.09      | -2079.40  | -42.05      | 85.87       | -42.05                | 85.87                | 30           | 59  | 24.108 N | 105           | 55  | 43.144 W |
| 1700.00  | 7.24        | 116.09      | -1980.20  | -47.59      | 97.18       | -47.59                | 97.18                | 30           | 59  | 24.055 N | 105           | 55  | 43.013 W |
| 1800.00  | 7.24        | 116.09      | -1881.00  | -53.13      | 108.50      | -53.13                | 108.50               | 30           | 59  | 24.001 N | 105           | 55  | 42.883 W |
| 1900.00  | 7.24        | 116.09      | -1781.79  | -58.67      | 119.81      | -58.67                | 119.81               | 30           | 59  | 23.948 N | 105           | 55  | 42.752 W |
| 2000.00  | 7.24        | 116.09      | -1682.59  | -64.20      | 131.12      | -64.20                | 131.12               | 30           | 59  | 23.895 N | 105           | 55  | 42.621 W |
| 2100.00  | 7.24        | 116.09      | -1583.39  | -69.74      | 142.43      | -69.74                | 142.43               | 30           | 59  | 23.842 N | 105           | 55  | 42.490 W |
| 2200.00  | 7.24        | 116.09      | -1484.18  | -75.28      | 153.74      | -75.28                | 153.74               | 30           | 59  | 23.789 N | 105           | 55  | 42.359 W |
| 2300.00  | 7.24        | 116.09      | -1384.98  | -80.82      | 165.06      | -80.82                | 165.06               | 30           | 59  | 23.735 N | 105           | 55  | 42.228 W |
| 2400.00  | 7.24        | 116.09      | -1285.77  | -86.36      | 176.37      | -86.36                | 176.37               | 30           | 59  | 23.682 N | 105           | 55  | 42.098 W |
| 2500.00  | 7.24        | 116.09      | -1186.57  | -91.90      | 187.68      | -91.90                | 187.68               | 30           | 59  | 23.629 N | 105           | 55  | 41.967 W |
| 2600.00  | 7.24        | 116.09      | -1087.37  | -97.44      | 198.99      | -97.44                | 198.99               | 30           | 59  | 23.576 N | 105           | 55  | 41.836 W |
| 2700.00  | 7.24        | 116.09      | -988.16   | -102.98     | 210.30      | -102.98               | 210.30               | 30           | 59  | 23.523 N | 105           | 55  | 41.705 W |
| 2764.68  | 7.24        | 116.09      | -924.00   | -106.56     | 217.62      | -106.56               | 217.62               | 30           | 59  | 23.488 N | 105           | 55  | 41.621 W |
| 2800.00  | 7.24        | 116.09      | -888.96   | -108.52     | 221.62      | -108.52               | 221.62               | 30           | 59  | 23.469 N | 105           | 55  | 41.574 W |
| 2900.00  | 7.24        | 116.09      | -789.76   | -114.06     | 232.93      | -114.06               | 232.93               | 30           | 59  | 23.416 N | 105           | 55  | 41.443 W |
| 3000.00  | 7.24        | 116.09      | -690.55   | -119.59     | 244.24      | -119.59               | 244.24               | 30           | 59  | 23.363 N | 105           | 55  | 41.313 W |
| 3100.00  | 7.24        | 116.09      | -591.35   | -125.13     | 255.55      | -125.13               | 255.55               | 30           | 59  | 23.310 N | 105           | 55  | 41.182 W |
| 3200.00  | 7.24        | 116.09      | -492.15   | -130.67     | 266.86      | -130.67               | 266.86               | 30           | 59  | 23.257 N | 105           | 55  | 41.051 W |
| 3300.00  | 7.24        | 116.09      | -392.94   | -136.21     | 278.18      | -136.21               | 278.18               | 30           | 59  | 23.203 N | 105           | 55  | 40.920 W |
| 3400.00  | 7.24        | 116.09      | -293.74   | -141.75     | 289.49      | -141.75               | 289.49               | 30           | 59  | 23.150 N | 105           | 55  | 40.789 W |
| 3500.00  | 7.24        | 116.09      | -194.53   | -147.29     | 300.80      | -147.29               | 300.80               | 30           | 59  | 23.097 N | 105           | 55  | 40.659 W |
| 3600.00  | 7.24        | 116.09      | -95.33    | -152.83     | 312.11      | -152.83               | 312.11               | 30           | 59  | 23.044 N | 105           | 55  | 40.528 W |
| 3700.00  | 7.24        | 116.09      | 3.87      | -158.37     | 323.42      | -158.37               | 323.42               | 30           | 59  | 22.991 N | 105           | 55  | 40.397 W |
| 3800.00  | 7.24        | 116.09      | 103.08    | -163.91     | 334.73      | -163.91               | 334.73               | 30           | 59  | 22.937 N | 105           | 55  | 40.266 W |
| 3900.00  | 7.24        | 116.09      | 202.28    | -169.45     | 346.05      | -169.45               | 346.05               | 30           | 59  | 22.884 N | 105           | 55  | 40.135 W |
| 4000.00  | 7.24        | 116.09      | 301.48    | -174.98     | 357.36      | -174.98               | 357.36               | 30           | 59  | 22.831 N | 105           | 55  | 40.004 W |
| 4100.00  | 7.24        | 116.09      | 400.69    | -180.52     | 368.67      | -180.52               | 368.67               | 30           | 59  | 22.778 N | 105           | 55  | 39.874 W |
| 4200.00  | 7.24        | 116.09      | 499.89    | -186.06     | 379.98      | -186.06               | 379.98               | 30           | 59  | 22.725 N | 105           | 55  | 39.743 W |
| 4226.32  | 7.24        | 116.09      | 526.00    | -187.52     | 382.96      | -187.52               | 382.96               | 30           | 59  | 22.711 N | 105           | 55  | 39.708 W |

# Marbob Energy Corporation

## DAD State No. 42

# PATHFINDER

## ENERGY SERVICES

### COMPANY DETAILS

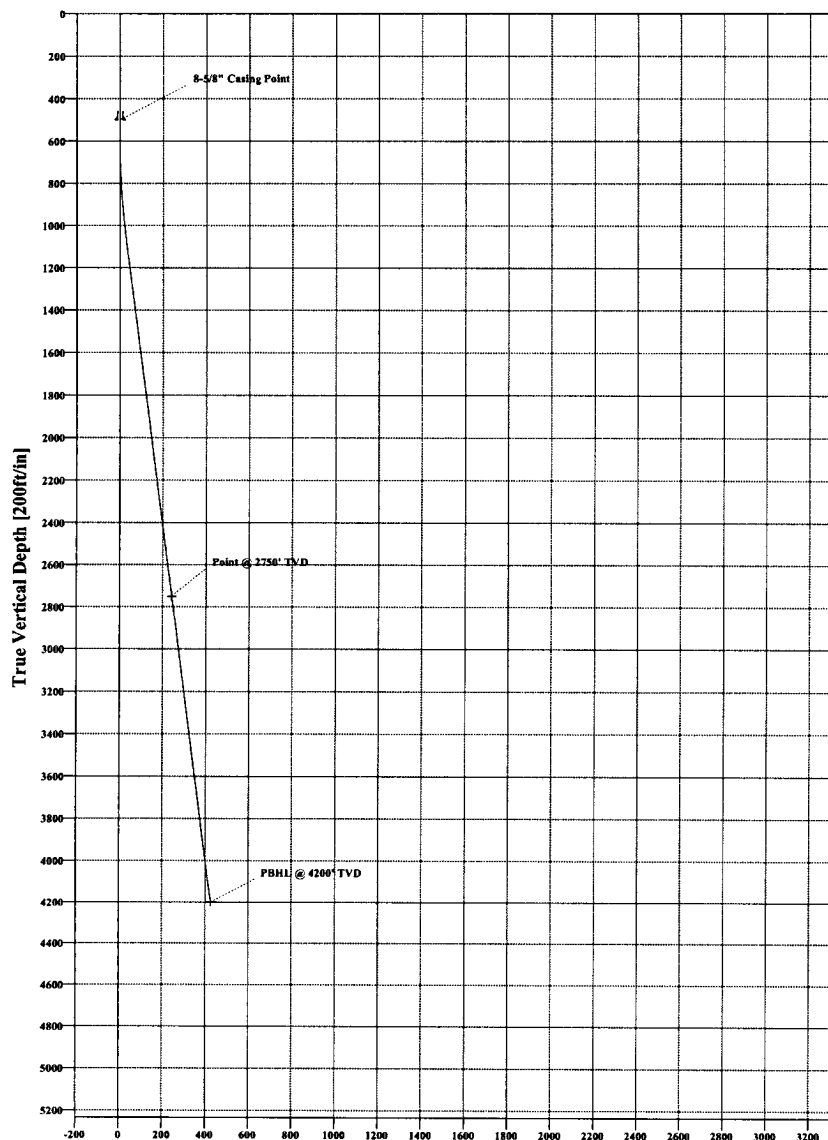
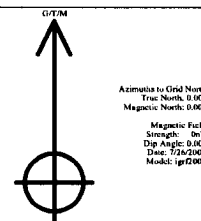
Marbob Energy

Calculation Method: Minimum Curvature  
Error System: Systematic Ellipse  
Scan Method: Closest Approach 3D  
Error Surface: Elliptical Conic  
Warning Method: Error Ratio

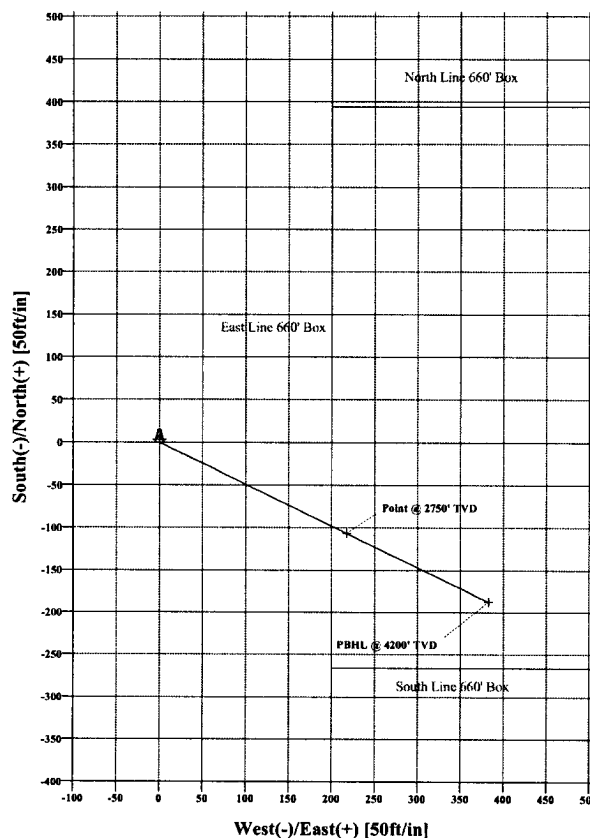
Field: Eddy County, NM  
Site: Section 25, T-17S, R-28E  
Well: DAD State #42  
Wellpath: Original Hole  
Plan: Plan #1

### SECTION DETAILS

| Sec | MD      | Inc  | Azi    | TVD     | +N/-S   | +E/-W  | DLeg | TFace  | VSec   | Target            |
|-----|---------|------|--------|---------|---------|--------|------|--------|--------|-------------------|
| 1   | 0.00    | 0.00 | 116.09 | 0.00    | 0.00    | 0.00   | 0.00 | 0.00   | 0.00   |                   |
| 2   | 600.00  | 0.00 | 116.09 | 600.00  | 0.00    | 0.00   | 0.00 | 116.09 | 0.00   |                   |
| 3   | 1082.39 | 7.24 | 116.09 | 1081.10 | -13.38  | 27.32  | 1.50 | 116.09 | 30.42  |                   |
| 4   | 2764.68 | 7.24 | 116.09 | 2750.00 | -106.56 | 217.62 | 0.00 | 0.00   | 242.31 | Point @ 2750' TVD |
| 5   | 4226.32 | 7.24 | 116.09 | 4200.00 | -187.52 | 382.96 | 0.00 | 0.00   | 426.41 |                   |



Vertical Section at 116.09° [200ft/in]



### REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Centre: DAD State #42, Grid North  
Vertical (TVD) Reference: SITE 3674.00  
Section (VS) Reference: Slot - (0.00N,0.00E)  
Measured Depth Reference: SITE 3674.00  
Calculation Method: Minimum Curvature

Plan: Plan #1 (DAD State #42/Original Hole)

Created By: Ron McIntyre

Date: 7/26/2004